

### **DETAILED ACTION**

1. This action is responsive to amendment filed 8/31/2010.

#### ***Response to Remarks/Amendment***

2. Applicant's remarks/amendment, page 7, filed 8/31/2010, with respect to claims 1-14, have been fully considered and as a result these claims are now indicated allowable. However, in order to further prosecution in the case an examiner's amendment was considered necessary so as to correct some minor deficiency in the claims noted herein below.

#### **EXAMINER'S AMENDMENT**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Hyung N. Sohn on 12/01/2010, 12/02/2010.

The application has been amended as follows:

#### **IN THE CLAIMS:**

Claim 1, line 4, "selecting, from the each filter tap look-up table," has been replaced with -- selecting, from each filter tap of the individual look-up table, --.

Claim 1, line 10, "estimate of a second look-up table," has been replaced with -- estimate of the second look-up table --.

Claim 1, line 13, “variable representing the signal amplitude, and” has been replaced with -- variable representing the signal amplitude of an input signal to the FIR filter structure, and --.

Claim 6, line 4-5, “variable representing signal amplitude; and” has been replaced with -- variable representing signal amplitude of an input signal to the FIR filter structure; and --.

***Allowable Subject Matter***

4. Claims 1-14 are allowed.

***Reason for Allowance***

5. The following is an examiner’s statement of reasons for allowance:

The prior art either considered alone or in combination neither teaches nor renders obvious a training method (system) for a power amplifier pre-distorter formed by a FIR filter structure, wherein the FIR filter structure includes an individual look-up table for each filter tap, comprising in combination with other claimed limitations, selecting, from each filter tap of the individual look-up table, a filter coefficient that depends on an amplitude of a corresponding complex signal value to be multiplied by the filter tap, wherein each look-up table represents a discretized polynomial in a variable representing the signal amplitude of an input signal to the FIR filter structure, and wherein the filter coefficient selected from the look-up table corresponding to each filter tap is independent of complex signal values to be multiplied by other filter taps. Such limitations as recited in

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independent claims 1 and 6, is neither anticipated nor rendered obvious by the art of record.

Claims 2-5, 7-14, are allowed by virtue of their dependency to claims noted above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### **Contact Information**

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to QUTBUDDIN GHULAMALI whose telephone number is (571)272-3014. The examiner can normally be reached on Monday-Friday, 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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QG.

December 2, 2010.

/CHIEH M FAN/

Supervisory Patent Examiner, Art Unit 2611